

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference WN-2826P	<b>FOR FURTHER ACTION</b>		See item 4 below
International application No. PCT/JP2005/012631	International filing date ( <i>day/month/year</i> ) 01 July 2005 (01.07.2005)	Priority date ( <i>day/month/year</i> ) 02 July 2004 (02.07.2004)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant NEC Corporation			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

Date of issuance of this report 16 January 2007 (16.01.2007)	
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  Yoshiko Kuwahara  e-mail: pt07@wipo.int
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**PATENT COOPERATION TREATY**

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

**TRANSLATION**  
**PCT**

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

(PCT Rule 43bis.1)

		Date of mailing (day/month/year)
Applicant's or agent's file reference <b>WN-2826P</b>		<b>FOR FURTHER ACTION</b> See paragraph 2 below
International application No. <b>PCT/JP2005/012631</b>	International filing date (day/month/year) <b>01.07.2005</b>	Priority date (day/month/year) <b>02.07.2004</b>
International Patent Classification (IPC) or both national classification and IPC		
Applicant <b>NEC Corporation</b>		

<p>1. This opinion contains indications relating to the following items:</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Box No. I Basis of the opinion</li> <li><input type="checkbox"/> Box No. II Priority</li> <li><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</li> <li><input type="checkbox"/> Box No. IV Lack of unity of invention</li> <li><input checked="" type="checkbox"/> Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</li> <li><input type="checkbox"/> Box No. VI Certain documents cited</li> <li><input type="checkbox"/> Box No. VII Certain defects in the international application</li> <li><input type="checkbox"/> Box No. VIII Certain observations on the international application</li> </ul> <p>2. <b>FURTHER ACTION</b></p> <p>If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.</p> <p>If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.</p> <p>For further options, see Form PCT/ISA/220.</p> <p>3. For further details, see notes to Form PCT/ISA/220.</p>
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Name and mailing address of the ISA/JP	Authorized officer
Facsimile No.	Telephone No.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/JP2005/012631

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material

a sequence listing  
 table(s) related to the sequence listing
  - b. format of material

in written format  
 in computer readable form
  - c. time of filing/furnishing

contained in the international application as filed.  
 filed together with the international application in computer readable form.  
 furnished subsequently to this Authority for the purposes of search.
3.  In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/JP2005/012631

Box No. V	<u>Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</u>																				
<p><b>1. Statement</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; padding: 2px;">Novelty (N)</td> <td style="width: 40%; padding: 2px;">Claims    <u>1 – 1 4</u></td> <td style="width: 20%; padding: 2px;">YES</td> </tr> <tr> <td></td> <td style="padding: 2px;">Claims _____</td> <td style="padding: 2px;">NO</td> </tr> <tr> <td style="padding: 2px;">Inventive step (IS)</td> <td style="padding: 2px;">Claims    <u>1 – 1 4</u></td> <td style="padding: 2px;">YES</td> </tr> <tr> <td></td> <td style="padding: 2px;">Claims _____</td> <td style="padding: 2px;">NO</td> </tr> <tr> <td style="padding: 2px;">Industrial applicability (IA)</td> <td style="padding: 2px;">Claims    <u>1 – 1 4</u></td> <td style="padding: 2px;">YES</td> </tr> <tr> <td></td> <td style="padding: 2px;">Claims _____</td> <td style="padding: 2px;">NO</td> </tr> </table>				Novelty (N)	Claims <u>1 – 1 4</u>	YES		Claims _____	NO	Inventive step (IS)	Claims <u>1 – 1 4</u>	YES		Claims _____	NO	Industrial applicability (IA)	Claims <u>1 – 1 4</u>	YES		Claims _____	NO
Novelty (N)	Claims <u>1 – 1 4</u>	YES																			
	Claims _____	NO																			
Inventive step (IS)	Claims <u>1 – 1 4</u>	YES																			
	Claims _____	NO																			
Industrial applicability (IA)	Claims <u>1 – 1 4</u>	YES																			
	Claims _____	NO																			
<p><b>2. Citations and explanations:</b></p> <p>Document 1: JP, 9-198336, A (NEC Corp.), 31 July, 1997 (31.07.97), paragraphs [0070]-[0091], Fig. 16 (Family: none)</p> <p>The subject matters of claims 1 and 9 appear to involve an inventive step over the documents cited in the ISR.</p> <p>Document 1 shows a multi-processor system composed of control nodes (client computers) and resource nodes (server computers) both connected to a network wherein a control node outputs write transactions the number of which is M to a resource node via the network; when the resource node receives a first write request message, it sets the state of its resource as reserved so that it cannot accept another write request message and outputs a response message to the first write request message to the control node through the network; and the resource node executes an updating process according to the first write request, whereby the time required for such resource node to process such write request message is shortened.</p> <p>However, document 1 does not describe the construction of a memory access process wherein a multi-process system's processing memory access by a resource node, wherein the controller of the control node shifts its resource to the write-locked state whereby the resource cannot accept any read request or any other write request messages from processors or input/output devices for other requests prior to a request that it receives; and outputs an updating message for the write request message to the resource node, whereby an updating process for a plurality of write-request messages is executed. A person skilled in the art could not have easily conceived of this matter.</p>																					